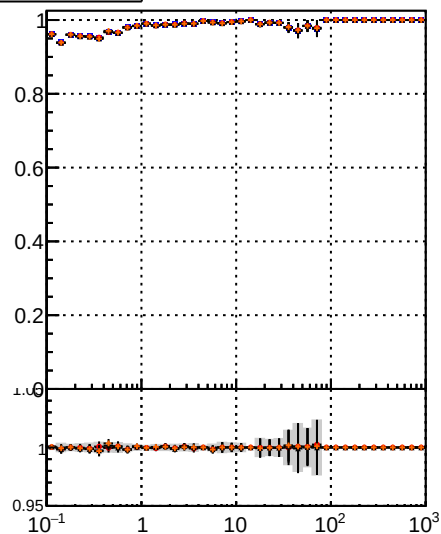
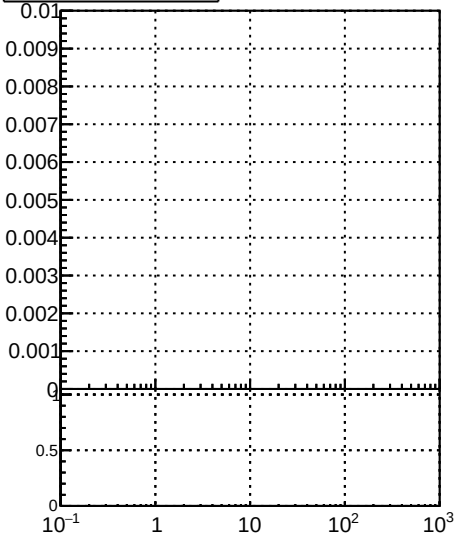
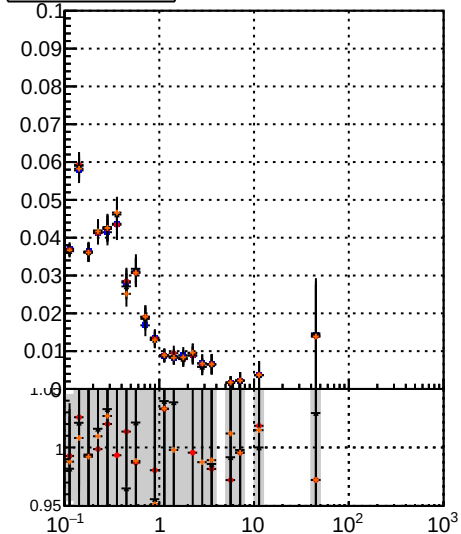
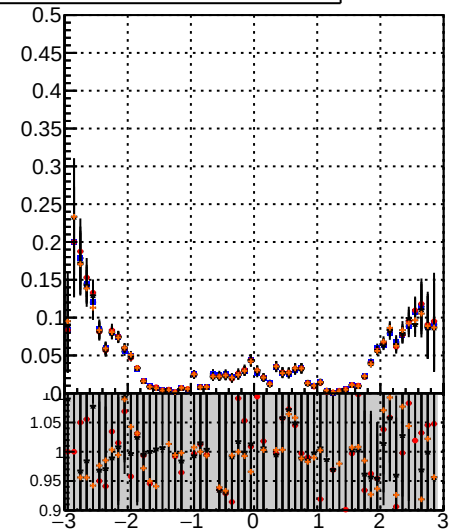
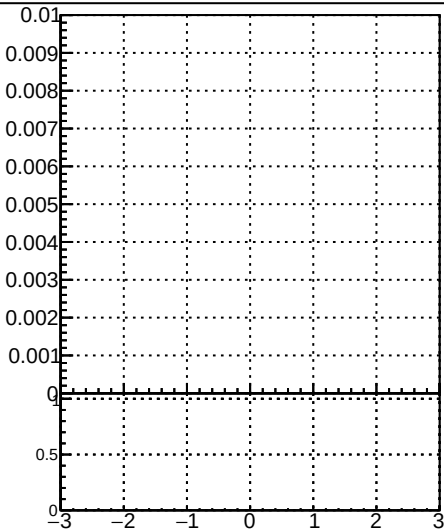
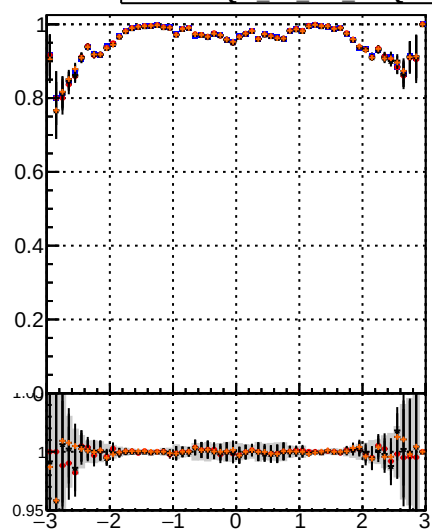
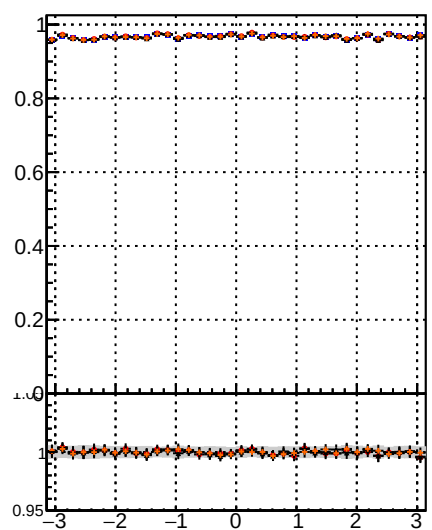
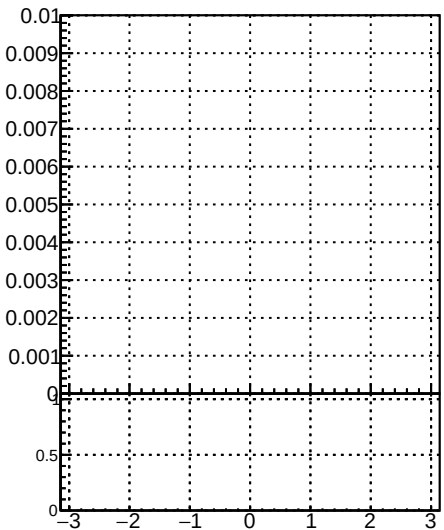


Fake rate vs p_T Duplicates Rate vs p_T Pileup rate vs p_T 

Legend for Fake rate vs p_T , Duplicates Rate vs p_T , and Pileup rate vs p_T :

- Blue squares: p_{Q1} MS
- Red circles: p_{Q1} MS
- Orange triangles: p_{Q1} MS

Fake rate vs ϕ Duplicates Rate vs ϕ Pileup rate vs ϕ 